



# Agenda

01

THE HISTORY

04

**METHODS & MODEL** 

02

THE PROBLEM

05

**EVALUATION** 

03

THE DATA

06

FURTHER



# Before Begin



Data Science Bootcamp Graduate

#FLATIRON SCHOOL

Bachelor Chemistry





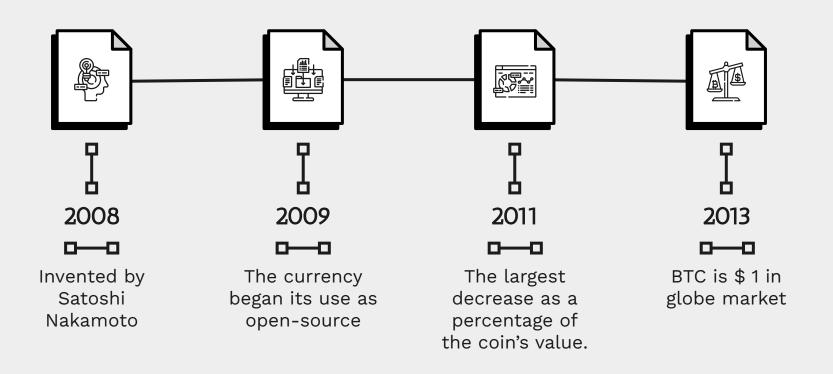
Data Scientist





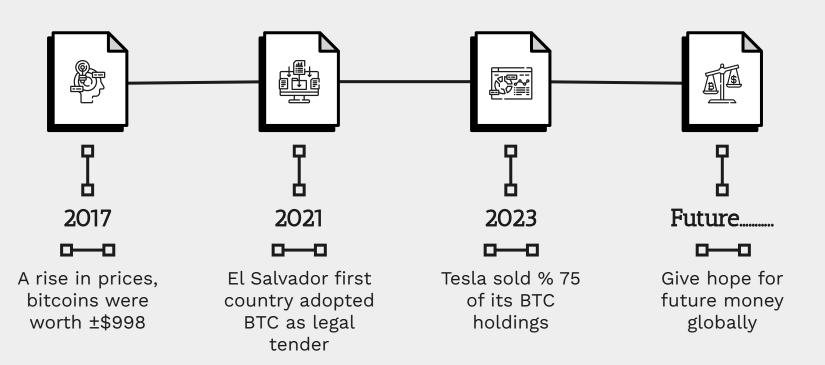
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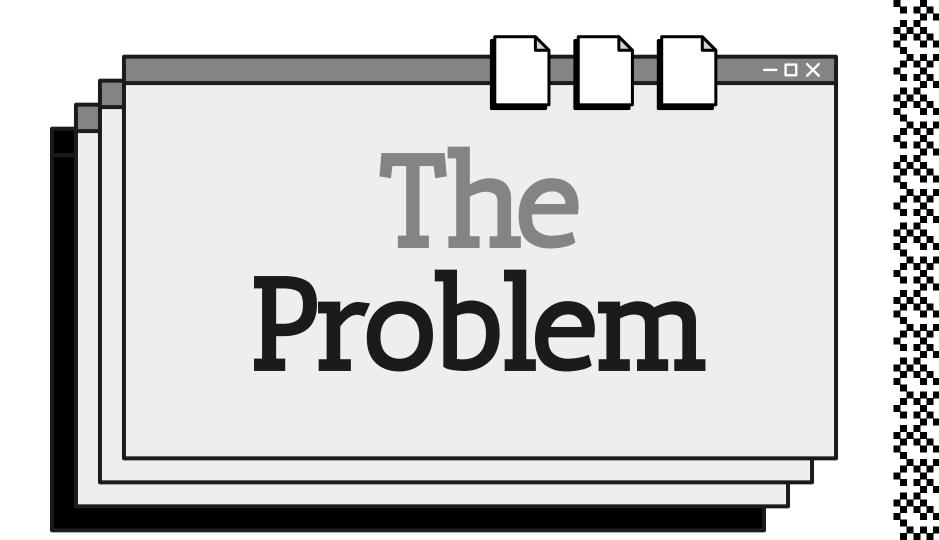
### BTC History - 2008→ 2013



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### BTC History - 2017 → Future







## Work System BTC?

Blockchain Technology



Immutable and decentralized system

Decentralized Network



Multiple nodes store data

Long-term Store of Value



Asset, currency, or commodity



#### Differentiation Between Currencies



Cryptocurrency



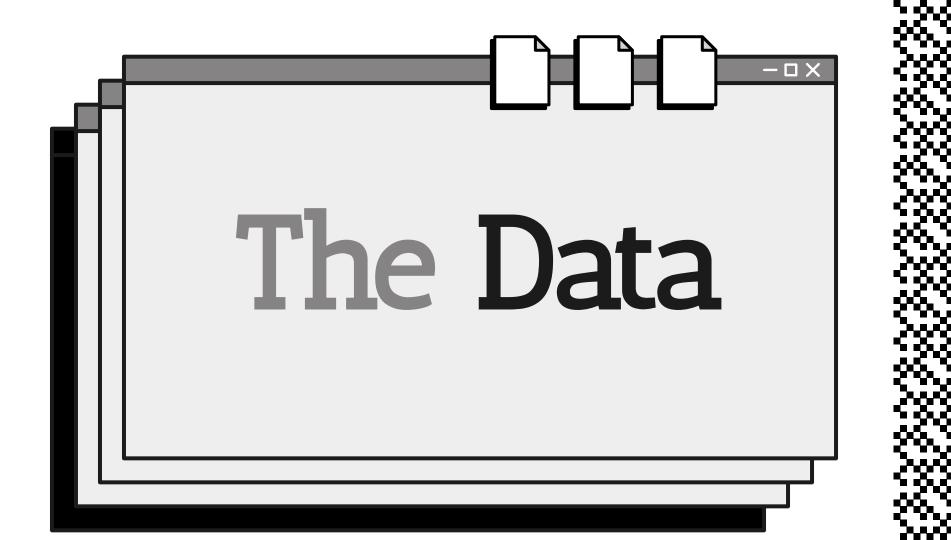
Multiple nodes store and process data



Regular Currency



Data is processed and stored by single node





#### **Dataset Facts**



Source: Yahoo Finance!

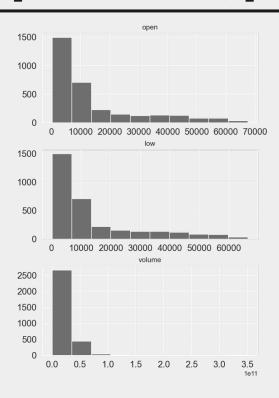


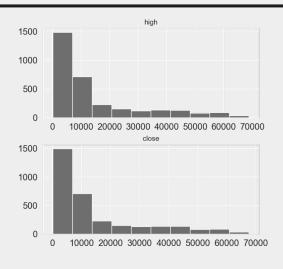
Bitcoin Historical Prices

Timeline: Sep,  $2014 \rightarrow May$ , 2023



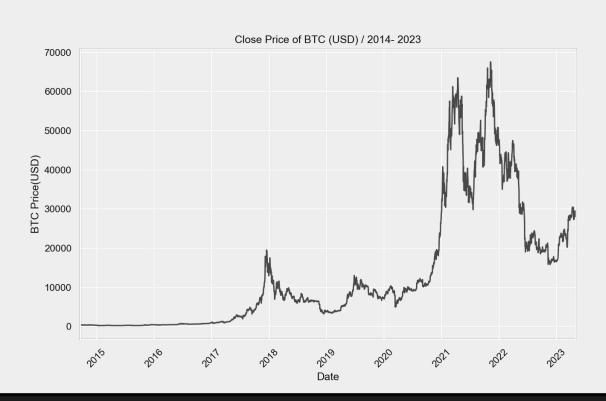
#### Normality All Columns (open, high, low, close, volume)





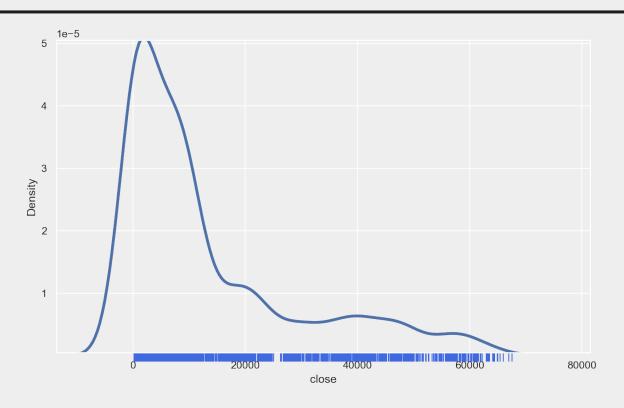


#### Close Price BTC Over Time



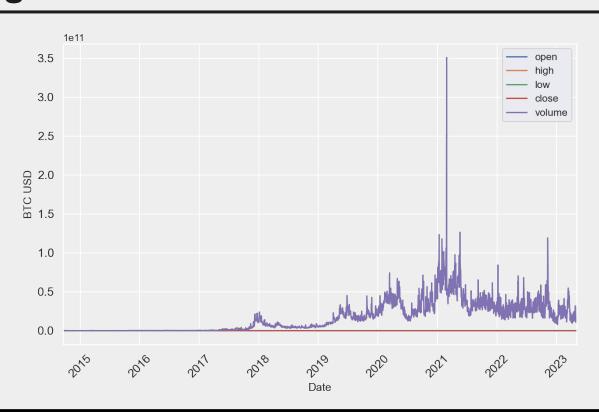


#### KDE Close Price of BTC



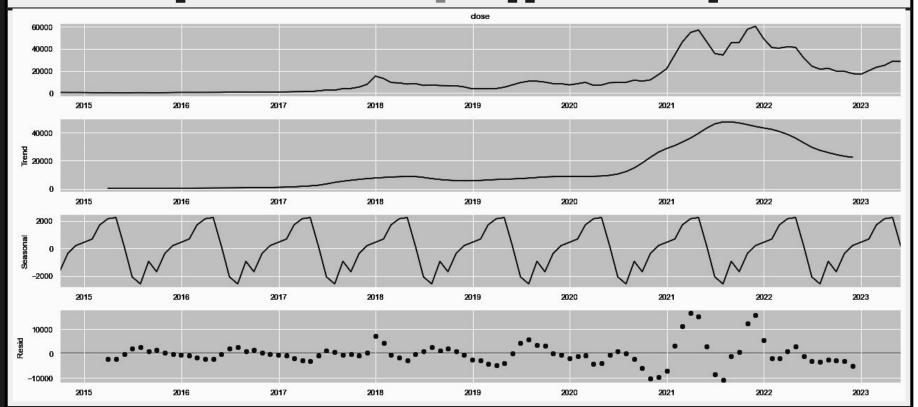


#### The Highest Volume \$ 35 B in 2021

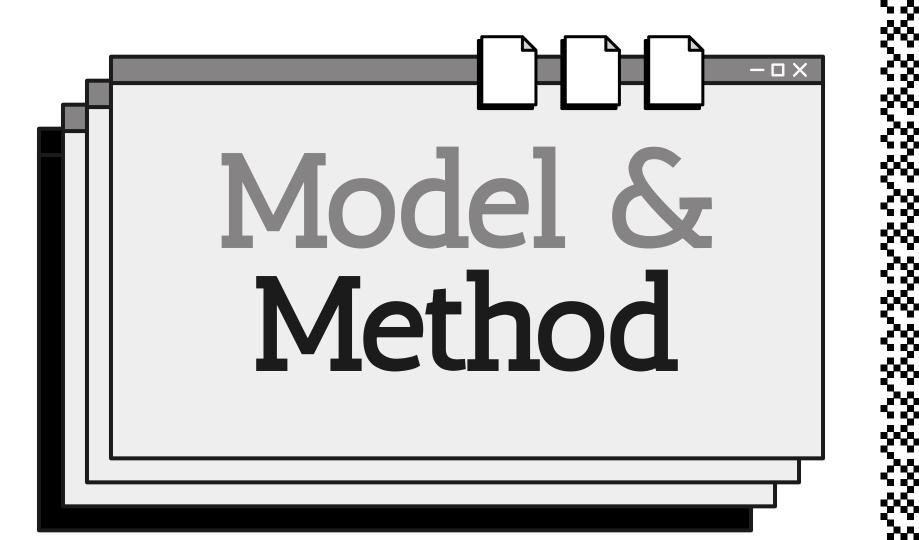




# **Decomposition Monthly Cryptocurrency**











#### Let's Review Some Statistics Forecast Measures

RMSE - 3230

AIC - 1510

RMSE- 4333

CI - 95%

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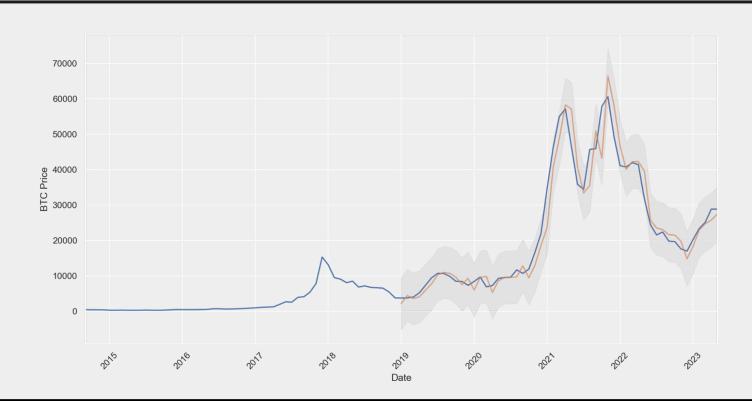
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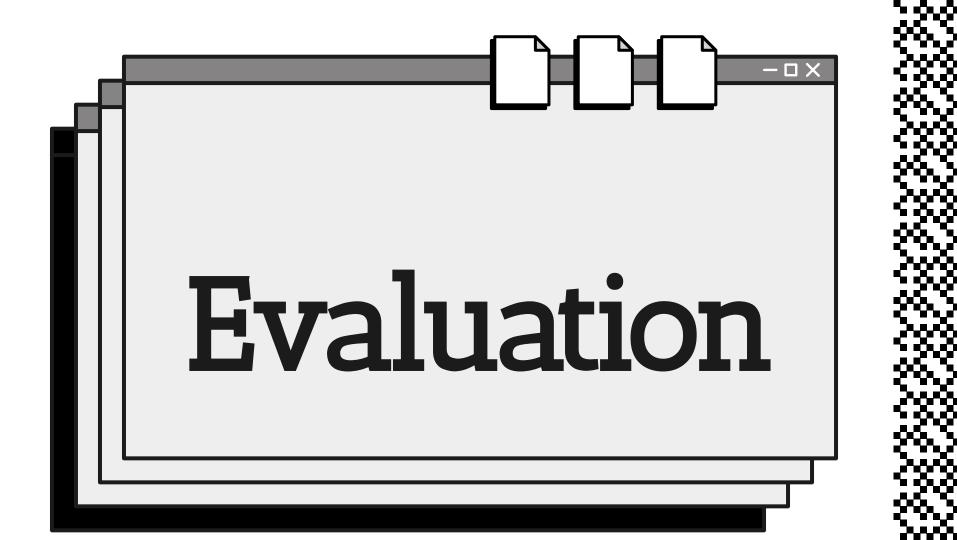
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Expected Root Mean Squared Error Akaike Information Criteria Forecast Root Mean Squared Error Confidence Interval



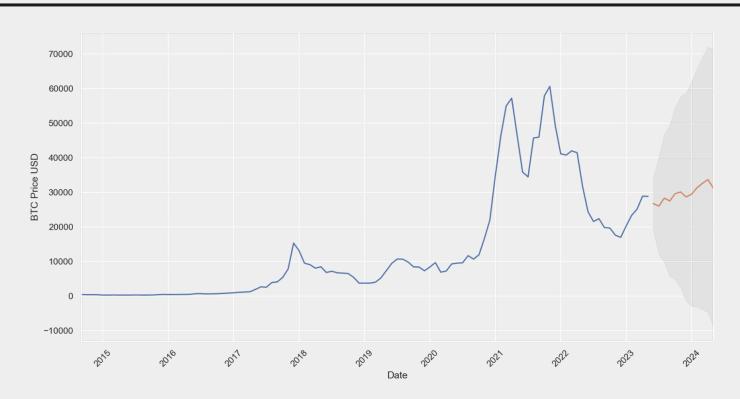
### **Prediction After 2019**





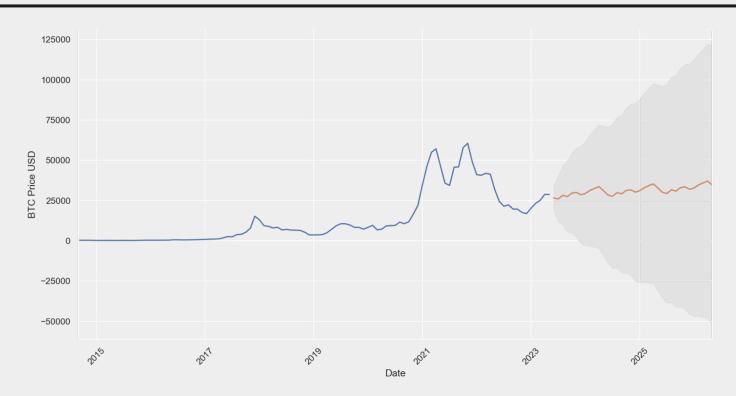


# 1 Yearly Forecast - 2024 Prediction



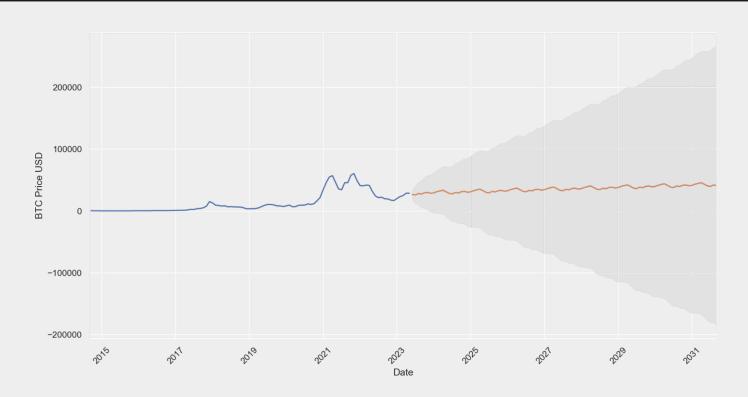


# 3 Yearly Forecast - 2025 Prediction





# 8 Yearly Forecast - 2031 Prediction



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# 2024

0-0

\$30-35K

# 2025

0-0

\$35-40K

2031

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\$40K +



#### Factors That Affect the Price of 1 Bitcoin



Supply



Demand



Cost of production



Number of competitors



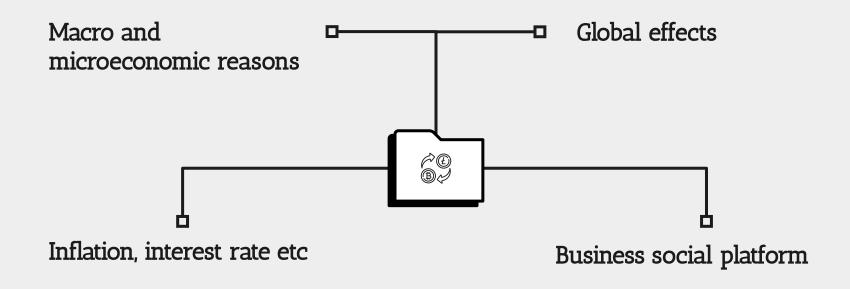
Regulation



Media coverage

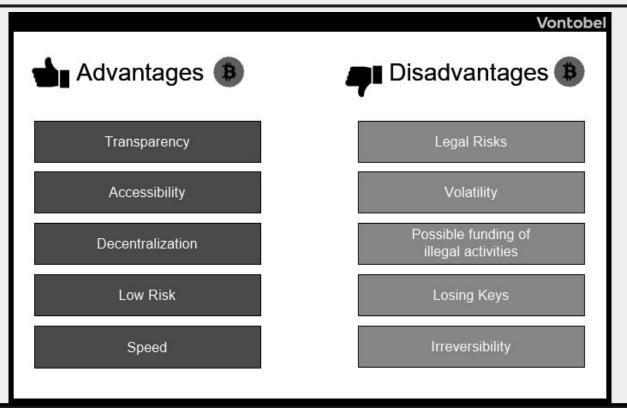


#### Other Factors





# Advantages & Disadvatages





#### BTC Around the Globe



#### India

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41 % Brazilian has own crypto



#### China

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# Thanks!

Do you have any questions?







github.com/drykvf



linkedin.com/in/hera-k





#### References

- https://finance.yahoo.com/quote/BT C-USD/
- https://bitcoin.org/en/how-it-works
- hhttps://en.wikipedia.org/wiki/His tory\_of\_bitcoin
- https://www.fidelity.com/learning-c enter/trading-investing/crypto-vs-c ash